

20030726.qrp v02_n993.qrl.20030726

Date: Sat, 26 Jul 2003 19:03:13 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2993

QRP-L Digest 2993

Topics covered in this issue include:

- 1) [154934] Re: Code Rqm't comment
by Rick McKee <kc8aon@juno.com>
- 2) [154935] Re: Glue and toroids
by "Lawrence Makoski" <Makos327@worldnet.att.net>
- 3) [154936] Homemade PCB's - Long
by KD5NWA <KD5NWA@cbayona.com>
- 4) [154937] Fwd: Logs for 14th OQRPC, please
by dl6aaf@t-online.de (Uwe Meier)
- 5) [154938] Fwd: Results 4th QRP MINIMAL ART SESSION
by dl6aaf@t-online.de (Uwe Meier)
- 6) [154939] UT falls all QRP
by Larry Cahoon <lejek@erols.com>
- 7) [154940] DDS signal generator project
by James R Giammanco <n5ib@juno.com>
- 8) [154941] Re: FM beacon transmitter
by Brad Thompson <Brad.Thompson@valley.net>
- 9) [154942] RE: Making etched circuit boards ??? somewhat OT.
by "Paul, VE1DY" <ve1dy@myway.com>
- 10) [154943] Secret
by "Brian Murrey - KB9BVN" <brian@iquest.net>
- 11) [154944] Re: Code Rqm't comment
by Rick McKee <kc8aon@juno.com>
- 12) [154945] Re: DDS signal generator project
by Brad Thompson <Brad.Thompson@valley.net>
- 13) [154946] Learning code
by "Robert K. Henderson" <rkh@sympatico.ca>
- 14) [154947] Re: Long shot... SMT diode
by Tim Groat <tcgroat@earthlink.net>
- 15) [154948] Re: Glue and toroids
by Peter Burbank <peterlee@qx.net>
- 16) [154949] Re: Lyle: YES!
by "Robert K. Henderson" <rkh@sympatico.ca>
- 17) [154950] RE: Long shot... SMT diode
by Fran Flynn <fflynn@adelphia.net>
- 18) [154951] Re: on line lic reg...
by Tim Groat <tcgroat@earthlink.net>
- 19) [154952] Re: Making etched circuit boards ??? somewhat OT.

by "Leon Heller" <leon_heller@hotmail.com>
20) [154953] Re: Learning code
by "john gabbard" <johngabbard@usintouch.com>
21) [154954] Elmer 160: Beginning PIC applications
by "John J. McDonough" <wb8rcr@arrl.net>
22) [154955] Re: PIC Elmer Series?
by "Pablo L. Robles" <wp4jxd@isla.net>
23) [154956] RockMite QSO
by James R Giammanco <n5ib@juno.com>
24) [154957] Re: Glue and toroids
by "Lawrence Makoski" <Makos327@worldnet.att.net>
25) [154958] RE: on line lic reg...
by "AI2Q" <ai2q@adelphia.net>
26) [154959] Miles Per Watt Formula?
by "NR5A" <nr5a@rap.midco.net>
27) [154960] Re: Elmer 160: Beginning PIC applications
by "Bill Jones" <kd7s@psnw.com>
28) [154961] Re: Learning code
by Bud Rogers <budr@netride.net>
29) [154962] Re: RockMite QSO
by "Norman Zoltack" <k3nz@enter.net>
30) [154963] Re: Long shot... SMT diode
by Jason Hissong <jhissong1@columbus.rr.com>
31) [154964] Re: Miles Per Watt Formula? [Almost]
by Chuck Carpenter <w5usj@9plus.net>
32) [154965] Re: Learning code
by "Mike Yetsko" <myetsko@insydesw.com>
33) [154966] Whoa! New Zealand on 20 m RTTY with the IC-703 !
by "Bill, N4QA" <n4qa@hotmail.com>
34) [154967] CY9A ...GOT EM !!!
by "George Osier" <gosier@twcnny.rr.com>
35) [154968] Re: Elmer 160: Beginning PIC applications
by "Bill Linn" <blinn@smgazette.com>
36) [154969] Re: Learning code
by Bruce Muscolino <w6toy@erols.com>
37) [154970] Re: Learning code
by Bruce Muscolino <w6toy@erols.com>
38) [154971] Re: Learning code
by Bud Rogers <budr@netride.net>
39) [154972] Re: MFJ Cub 20m drift problem
by "Julian (G4ILO)" <g4ilo@qsl.net>
40) [154973] Re: Code Rqm't comment
by Thom LaCosta <baltimoremd@baltimoremd.com>
41) [154974] Re: Learning code
by Bruce Muscolino <w6toy@erols.com>
42) [154975] Re: MFJ Cub 20m drift problem
by Bruce Muscolino <w6toy@erols.com>
43) [154976] Learning the code

by Ray Sills <raysills@1stconnect.com>
44) [154977] Re: Glue and toroids
by "E. Roswell" <eroswell@monmouth.com>
45) [154978] Re: Elmer 160: Beginning PIC applications
by David Hinerman <WD8CIV@worldnet.att.net>
46) [154979] Re: Code Rqm't comment
by Alex <kr1st@amsat.org>
47) [154980] R.I.P.
by Rob Matherly <w0jrm@arrl.net>
48) [154981] Re: Elmer 160: Beginning PIC applications
by "Dave Ek" <ekdave@earthlink.net>
49) [154982] paging Dennis K1LG0!
by "Dave Richards" <wr3i@earthlink.net>
50) [154983] Re: Elmer 160: Beginning PIC applications
by Bruce Ratray <ratray@gpfn.sk.ca>
51) [154984] RE: paging Dennis K1LG0! correction K1LGQ!!!
by "Dave Richards" <wr3i@earthlink.net>
52) [154985] Re: R.I.P.
by Joe Martin <km5cw@arrl.net>
53) [154986] Re: Code Rqm't comment
by Thom LaCosta <baltimoremd@baltimoremd.com>
54) [154987] Re: Learning the code
by "John L. Sielke" <jsielke@pobox.com>
55) [154988] Digimax D-1200 counter question
by Alex <kr1st@amsat.org>
56) [154989] Flight of the Bumblebees
by "John Huffman" <hjohnc@core.com>
57) [154990] Update: Frankenkeyer
by Steven Weber <kd1jv@moose.ncia.net>
58) [154991] Re: Homemade PCB's - Long
by Steven Weber <kd1jv@moose.ncia.net>
59) [154992] Re: Learning the code
by Thom LaCosta <baltimoremd@baltimoremd.com>
60) [154993] Re: Learning the code
by "Lawrence Makoski" <Makos327@worldnet.att.net>
61) [154994] RE: Digimax D-1200 counter question
by "Jim" <k4gt@mindspring.com>
62) [154995] Re: Elmer 160: Beginning PIC applications
by "Jim Pruitt" <wa7duy@charter.net>
63) [154996] Re: Making etched circuit boards
by Jeff Furman <jfurman@ocs.net>
64) [154997] Re: Elmer 160: Beginning PIC applications
by Dale Botkin <dale@botkin.org>
65) [154998] Re: Learning the code
by "Thomas Kuehl" <ac7a@earthlink.net>
66) [154999] Pre-Bumble Bee Test
by Jim Cluett <w1pid@yahoo.com>

Date: Fri, 25 Jul 2003 18:14:31 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [154934] Re: Code Rqm't comment
Message-ID: <20030725.182803.9110.5.kc8aon@juno.com>

And while we're at it, lets make 100 watts the "legal limit" !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
QRP-L #2112, FPqrp #33, AR QRP #269
I'll give up CW when I'm dead ! MAYBE !

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Date: Fri, 25 Jul 2003 18:35:11 -0400
From: "Lawrence Makoski" <Makos327@worldnet.att.net>
To: <jstamper@shentel.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154935] Re: Glue and toroids
Message-ID: <00ba01c352fd\$02c40470\$de55590c@larrysahyqy001>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

When I built my LDG autotuner from a kit, LDG recommended hot glue or
RTV.

73 de Larry W2LJ

W2LJ@arrl.net
<http://www.qsl.net/w2lj>

ARRL Lifemember QRP ARCI #4488 NJQRP #47
FISTS #1469 QRP-L #778 FP #612 QRPp-I #759
ARS #1528 --- K1 #1647

----- Original Message -----

From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, July 25, 2003 12:07 PM
Subject: Glue and toroids

> Does anybody have any thoughts on duco cement or other glue that might
be
> used to secure wound toroids after they have been soldered upright
into a
> PCB? I'm looking for something to give added stability in case I
> accidentally hit one while working on the rest of the circuit.
>
> jim-
> KG4LDY
>
>

Date: Fri, 25 Jul 2003 17:40:11 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: QRp-1@lehigh.edu
Subject: [154936] Homemade PCB's - Long
Message-ID: <5.2.0.9.0.20030725171236.00a7a990@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I just ordered a heated tank and 1.5 gallons of ferric chloride, and I have a whole lot of projects that need PCB's, so some good advice would be handy, especially in the area of creating a master, and transferring the art to the board.

Has anyone in this group used Epson Deluxe Photo Paper for transferring the PCB circuit to a blank board? It was mentioned to me as a reliable way to make home PCB's.

I have a 600 DPI HP 6P printer, it prints solid blacks, I also have access at work to printers with 1200 DPI resolution, so printing should not be a issue.

For now I want to stay away from photo methods, the boards are way too expensive, so heat transfer is what I have available, unless it proves that it can't do the job. I think some of the boards requiring fine spacing may require a different technique, any opinions?

Most projects us at worst .050 IC pin spacing or bigger and need to be only single sided, so I don't expect too much trouble from them.

I need to be able to use some TSOP, PDSO, and PQFP IC's, which have a pin spacing of .5 mm or .0196 inches, that's the worst spacing for some chips on two important projects.

Does anyone out there have experience with those kinds of chips and homemade boards? Is it realistic to make boards for these devices at home, without using photo methods?

I am thinking of using the free Lite version of Eagle Cad, any experience with it?

Your comment on this list or in private would be appreciated.

Thanks

Cecil
KD5NWA

Date: Sat, 26 Jul 2003 01:07:59 +0200 (MET DST)
From: dl6aaf@t-online.de (Uwe Meier)
To: qrp-l@lehigh.edu
Subject: [154937] Fwd: Logs for 14th OQRPC, please
Message-ID: <200307252308.BAA00313@joringel.t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

From: DJ7ST @ DB0ABZ.#NDS.DEU.EU (Hartmut)
To: OQRPWW @ DB0ABZ.#NDS.DEU.EU

Dear OQRP-Contest-Friends,

if you did not yet send your log for the 14th OQRPC (05/06-Jul-03)
you can do this within the next few days by

- 1) paper log via snail mail to DJ7ST
- 2) packet radio log to DJ7ST@DB0ABZ
- 3) e-mail-log to oqrpc@qrpcc.de (dl9oe@darcl.de is obsolete, but Ray, DL9OE will pass along any logs sent to him)

Anyhow, please don't forget to sort your qso bandwise and to give a

"handmade declaration" and to sign it if you met the handmade criteria.
And please tell your pauses (9 hours minimum) and rough details of your
equipment (not only "homebrew TRX")

mni tks in advance es best 73/2

"Hal", DJ7ST

Date: Sat, 26 Jul 2003 01:09:39 +0200 (MET DST)
From: dl6aaf@t-online.de (Uwe Meier)
To: qrp-l@lehigh.edu
Subject: [154938] Fwd: Results 4th QRP MINIMAL ART SESSION
Message-ID: <200307252309.BAA00325@joringel.t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

From: DJ7ST @ DB0ABZ.#NDS.DEU.EU

24-Jul-2003

QRP-CONTEST-COMMUNITY (qrpcc)
c/o Hartmut Weber, DJ7ST

Dear QRP-Minimalists,

these are the

Results of the 4th QRP-MINIMAL-ART-SESSION (29-May-03)

	CALL	PTS	COMP	QSO	EQUIPMENT
	CLASS A				TX+RX or TRX < 100 components
1	HB9XY	63	A99	20	"The 99er" (HB9XY des.,QRP-Report 1/2003, p.39)
2	F/DL4IW	62	A73	13	VX0-solo (double triode); DC-RX (trans.)
3	DL6KWN	47	A85	15	VFO-BU-DR-PA, 4.5W ; DC-RX (RF-ampl.)
4	OK1FAQ	42	A64	8	VX0-PA (KSY34) ; RX: 0-V-3 (ECC85-ECC83)
5	OZ9QM	35	A76	7	VFO-BU/DR-PA (4 trans., 1.4 W) ; DC-RX (SBL-1)
6	OZ9KC	21	A99	6	VFO-PWR SPLIT-DR-PA (2N3553; 1.4W) ; DC-RX
7	DL3AKF	20	A99	5	"The 99er" (HB9XY des.,QRP-Report 1/2003, p.39)
8	DL3LQM	17	A58	3	Pixie-TRX, 2 crystals
9	DL1SAN	15	A30	3	Pixie (2N2222); ca. 0.4W
10	DF20K	12	A50	2	SMiTE-Pixie-2 (SMD-version); 0.25W
11	OM3CUG	6	A52	1	"TRX for QRP-MAS": CO-PA (KSY34); DC-RX

CLASS B

TX < 50 components

1	DJ9IE	141	B13	38	ECO-solo (EL 508); 250V
2	DJ1ZB	129	B13	21	"Hochvolt-MAS-TX" (VRO-PA; BC548B-BF459 an 130V)
2	DL1ARH	129	B13	20	VFO-PA (3xKP902A); 9W in
4	DL2AWA	120	B13	18	VRO-solo (2xEF184 in push-pull, Huth-Kuehn)
5	DK0VLP	109	B12	17	Piccolino npn-version (BD106) (DJ1ZB, SPRAT '85)
6	SP6LV	81	B36	16	VFO-BU/DR-PA (ECC82-6P9)
7	DK5RY	78	B15	14	VRO-PA (CQ-DL 9/02, p.674; DJ1ZB)
8	OK2BTT	77	B20	12	ECO-solo (EL83) "Amaterska Radiotechnika" 1954
9	DL1JGA	75	B22	12	VXO-PA (GM30XX des.) PA 2SC1947; 3W
10	DL9QM	73	B30	13	ECO-PA (2tbs; 9W in)
11	DJ6FO/p	71	B37	15	OXO-VFO, JBS-TX, PA 2SC2166; 3W
12	OE8GBK	61	B18	10	VXO-solo (RL12P10; 5W) ("Nostalgie-TX")
13	DJ2GL	56	B18	10	ECO-solo (DASD-Standardgeraet Nr. 10)
14	DK0SZ	49	B44	11	TX80/1 (Hari); PA 2N2219, 900mW
15	DL8GN	46	B18	7	VXO/PA (VN10KM MosFet), 1.2W (ARRL "QRP POWER")
16	DL1AZK	44	B33	9	VXO-BU-PA (MRF479; 2,5W in)
17	DJ7ST	39	B22	7	VXO/FD-PA (EF13-EF14); 400mW
18	DL2MFP	35	B13	5	Hartley-solo (RE 604)
19	ON4ATZ	26	B20	4	QRP-MAS-Special: CO-PA
20	DK9KR	24	B24	4	QRP-MAS-Projekt 2003; CO-PA (IRF 510); 3.4W
21	DL3BCU	20	B13	3	VRO-PA (BD137) (CQ-DL 9/02, DJ1ZB design)
22	OK1DXK	13	B19	2	VXO-PA (BF245-BSY34) (OK QRP INFO 43/44, p10)
23	DL1EH	7	B11	1	CO-solo (RE 134; Huth-K hn); 3W

CH ON5JD 4

- - - - -

The minimalists' voice:

 All tubes and parts over 50 yrs old. One stn had to be rcvd with 2.5 kHz bandwidth because changing of frequency: one for dots and another for dashes (SP6LV)

Had built a TX with 2N3553 for 40 and 20mtrs. So when I realized the QRP-MAS was on 80m I was too late... (ON5JD)

Had a hard time, but none too hard. There was after all a 100% increase compared to 2000, hi. It is difficult for a "northern light" running 0.25w to get through to the "southern states". Mni stn hrd, no QRN(!) (DF20K)

It is not easy to find the MAS-rules in the Internet...I've made this TX especially for this contest and it was very pleasant to make some contacts with other HAMS also making small transmitters (ON4ATZ)

Some time ago, I put together a frugal radio based on the Pixie principle, just for fun ... on Ascension Day I happened to stumble over the MAS rules in my inbox. So I dragged the thing from a corner ... and got a big surprise when the answers came in ... (DL1SAN)

My first QRP-MAS. Can tune my rig from 3570-3580 kHz (VXO with TV-crystal) ... Scanned my 10 kHz one hour but nil... Tried a long CQ on 3575 and DJ1ZB answered there are few stations in the contest, I guess (OM3CUG)

7.5dB more power compared with 2002, but 2.4dB less QSOs. Paraphrasing a famous cartoon inventor: "A little volt here, a little Ohm there, and soon there'll be little oscillating symptoms!" (DK9KR)

All good things come in "threes". This was my third complete defeat by QRN! Definitely my last stint at MAS under such conditions (HB9XY)

Gave up after 10 QSOs because of heavy QRN ... (DJ2GL)

Regrettably I lacked time to add coil and variable capacitor to my tiny tx ... A suggestion: Please listen to the sides of your frequency after a cq. Called stations only 2-3kHz off my frequency in vain. The high QRN level didn't help either. It wasn't our lucky day! (DL1EH)

Alternate start in class B on short notice. After about 2100UTC tremendous QRM ... almost nothing heard thereafter (DL1JGA)

With all these ionospheric handicaps bagging HB9XY after umpteen futile attempts was almost like working ZL! (DJ6F0)

Some new call signs, others were missing. The QRN wasn't nice, but bearable. Probably less so for QRPp stations (DJ1ZB)

At last also participants between 3540 & 3560kHz! Unfortunately my ant is very noisy, resulting in poor s/n ratio and "thin" signals (DL1ARH)

A great challenge, a superb contest! Thanks to all stns (DL3LQM)

Enjoyed the Session but couldn't hear much in the QRN hash, sri (DL9QM)

My Hartley acted up, frequency stability unsatisfactory due to the aerial swaying back and forth in the wind ... (DL2MPF)

Working conditions were difficult due to QSB and QRN (OZ9KC)

Completely new construction for MAS, VXO range 8kHz, 4kHz of which were occupied by a jamming station. A jam session so to speak (DL1AZK)

A pity that conditions during the test were not optimal.
But still a nice contest (OZ9QM)

Less QRN than anticipated, but no connections to the north because
of Aurora (DJ9IE)

... wrote the log during MAS (it shows it, hi). Conds improved after main
TV time. Unfortunately most participants were in bed by then (OE8GBK)

- - - - -

The manager: (most translation by DK3UZ, tks Eddi!)

Thank you for participating in spite of bad condx, for your logs and comments.
Are we moving into tropical zones? For a second time many suffered from QRN,
which wasn't a problem for all. Or are we also a little spoiled by HiFi or FM
radio, and expect higher levels of comfort compared with times when a
summertime ionosphere wasn't noticeable in our crystal sets headphones?

It probably is simply statistical hard luck, this increased QRN on Ascension
Day since 2000. In decades of FD participation (1st weekend in June) we
experienced serious QRN in much less than half the number of events.

Despite all this, participation in class A increased by 50%, keeping the
total at the same number. This indicates a grown potential of interest.

There was good activity at the "experimenters frequency" (3579 kHz minus
VXO-range) for the first time.

Often a few more dB and a QSO wouldn't have been hashed up. So maybe 15v at
the pa transistor's collector instead of just 12v, raising a Pixie's output
from 250 to 500mw? And a full-sized dipole instead of a G5RV.
Thus we gain 6db and complete QSOs.

So: "A QRPer never gives up"!

73/2 de "Hal", DJ7ST

Date: Fri, 25 Jul 2003 23:16:37 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-l@lehigh.edu
Subject: [154939] UT falls all QRP
Message-ID: <5.1.0.14.0.20030725231244.01cfb540@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Two in one day. This morning I picked up N6MJ/M in Daggett, UT and this evening I picked him up again in Piute, UT to finish off the state all counties QRP. Daniel and his dad, W6TMD, are finishing up a two week trip giving out counties in the west so I had a fair idea of where they would be when. They did get to Piute a day earlier than planned, but knowing their route helped in following them. UT came in with an average power of 3.4 watts per county.

Now only 9 counties in 5 states to go.

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

Date: Fri, 25 Jul 2003 16:20:18 PDT
From: James R Giammanco <n5ib@juno.com>
To: qrp-1@Lehigh.edu
Subject: [154940] DDS signal generator project
Message-ID: <20030825.181652.4631.1.n5ib@juno.com>

Re: <http://www.qsl.net/kg6cyn/DDS_Project.htm>

In getting together a parts order I discover that the Panasonic mechanical encoder (DigiKey P80695-ND) is no longer a stocked item. Has anyone a suggestion for a good substitute? The description indicates it has Gray code output.

On a related topic - any plans yet for a group buy of the MiniCircuits amplifier needed for the project? They can be had for \$1.42 each but ya gotta buy in lots of 10. I'm tempted, but don't want to duplicate efforts.

Looks like 3 for \$6, postpaid, would be feasible. that would allow for P&H from MiniCircuits and postage to send them out.

73
Jim N5IB

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Date: Fri, 25 Jul 2003 19:29:37 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: nfoster@bluefinrobotics.com,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154941] Re: FM beacon transmitter
Message-ID: <5.0.2.1.2.20030725192513.02050790@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

This is kind of an off-the-wall suggestion, but does anyone know whether these are schematics available for sonobuoys such as the ones Fair Radio was selling? I've misplaced my Fair Radio catalog and don't know whether the sonobuoys are still available.

Also, I dimly recall reading about sonobuoy conversions to 2 meters sometime back in the 1960s, but these were designed around vacuum tubes. The newer ones are solid state.

Studying the design and construction of one of these might offer some inspiration, not least in packaging for what has to be a very hostile environment.

73--

Brad AA1IP

At 06:19 PM 07/25/2003 -0400, Nick Foster wrote:

>Hi all,

>

>I'm trying to construct a simple, 1 or 2 watt FM beacon for the 160MHz
>marine band, and I'm finding myself desperately needing an Elmer's helping
>hand. I've got the oscillator working great and the FM as well, but I'm
>having trouble with other sections.

>

>I've got a thousand little questions about VHF design and measurement
>techniques, and I'd love to have someone I could pester with them. =)

>

>There's just such a difference between "senior electrical engineer" and
>"senior in electrical engineering at university". *g*

>

>Thanks,
>Nick Foster

Date: Fri, 25 Jul 2003 19:40:54 -0400 (EDT)
From: "Paul, VE1DY" <ve1dy@myway.com>
To: qrp-1@Lehigh.EDU
Subject: [154942] RE: Making etched circuit boards ??? somewhat OT.
Message-ID: <20030725234054.120BD3A0A@xmnpita.myway.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Art...

You've got lots of suggestions.

If you already have your artwork (from a magazine), what I do is cut it out, and glue it to the copper with mucilage (paper glue). Then I drill the holes with a dentist burr (burred from my dentist) using a drill press.

When that's done, I remove the paper, smooth the drilled holes, clean the board, and draw the circuit with an etch resist pen. I've read that the red permanent markers work well.

>quick and
dirty method

I've made lots of boards this way, and it works quite well.

Good luck and tell us how you make out.

73,
Paul - VE1DY
Halifax, NS

--- On Thu 07/24, Arthur Moe < kb7ww@easystreet.com > wrote:
From: Arthur Moe [mailto: kb7ww@easystreet.com]
To: qrp-1@Lehigh.EDU

Date: Thu, 24 Jul 2003 21:58:22 +0000

Subject: Making etched circuit boards ??? somewhat OT.

All,

I thought that this would be the list to ask this question on because of all
the builders that are here.

I am about to start a new HV power supply project for a 432 Mhz amplifier. In
the past I have used PERBOARD from Radio Shack to mount diodes, filter
capacitors strings, and equalizing resistors. Well I now feel its time to join
the 20th century and start making one off etched circuit boards, to mount
components on. Would there be someone who would like to recommend a quick and
dirty method.

Art
KB7WW

No banners. No pop-ups. No kidding.

Introducing My Way - <http://www.myway.com>

Date: Fri, 25 Jul 2003 19:02:32 -0500

From: "Brian Murrey - KB9BVN" <brian@iquest.net>

To: "QRP-L" <qrp-l@lehigh.edu>, "Flying Pigs" <fpqrp-l@fpqrp.com>

Subject: [154943] Secret

Message-ID: <00b201c35309\$36d51090\$02fea8c0@bmurrey2K>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I have a little secret. I am about to divulge my secret trick to obtain free hamfest tickets, and even sometimes free food, and free camping....

The next time you see a hamfest advertised, contact the hosts and ask them if you can put on a QRP Forum in trade for tickets to the fest.

I have never been turned down.

I use the world famous NJQRP Club Presentation, and advertise a show and tell session. Once they say yes, contact all your homebrewing buddies, fellow QRPers, and the like and ask them to bring stuff for show and tell.

I always get help from my Flying Pig buddies at the informal forums I arrange. The hit of the show is the show and tell. QRP ARCI has always supplied me with a few trinkets to give away as "prizes" and I always hand out ARCI applications to the attendees.

Folks I am telling you that if you get excited people talking about

something they love to do, the bug is contagious.

Go out and be fishers of ham.

73

```
=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
K1 #1205, NC40A, or SWL Rigs
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====
```

Outgoing mail is certified Virus Free.

Checked by AVG anti-virus system (<http://www.grisoft.com>).

Version: 6.0.504 / Virus Database: 302 - Release Date: 2003-07-24

Date: Fri, 25 Jul 2003 20:10:30 -0400

From: Rick McKee <kc8aon@juno.com>

To: qrp-l@Lehigh.EDU

Subject: [154944] Re: Code Rqm't comment

Message-ID: <20030725.201035.9110.8.kc8aon@juno.com>

YES YES YES YES YES - 100 WATTS TOPS, THAT'S IT - NO MORE ! DON'T NEED ANY MORE !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
QRP-L #2112, FPqrp #33, AR QRP #269
I'll give up CW when I'm dead ! MAYBE !

On Fri, 25 Jul 2003 19:05:46 -0700 Mike Manship <mjmanship@iquest.net> writes:

>No.

>Mike W90J

>

>At 06:14 PM 7/25/03 -0400, you wrote:

>>And while we're at it, lets make 100 watts the "legal limit" !

>>

>> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid:
>EM88rl
>>SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500
>RX
>> QRP-L #2112, FPqrp #33, AR QRP #269
>> I'll give up CW when I'm dead ! MAYBE
>!
>>
>>
>>-----
>>The best thing to hit the internet in years - Juno SpeedBand!
>>Surf the web up to FIVE TIMES FASTER!
>>Only \$14.95/ month - visit www.juno.com to sign up today!
>>
>>
>
>

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Date: Fri, 25 Jul 2003 21:09:36 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: n5ib@juno.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154945] Re: DDS signal generator project
Message-ID: <5.0.2.1.2.20030725205324.01d1b650@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

I currently have two MMICs FS that might do the job:

MSA-0786: Hewlett-Packard MMIC broadband and stable RF amplifiers featuring
DC-2 GHz freq. response.

These are taped and reeled and feature leads configured for surface-mounted
applications. Specs are
available at HP's web site (or with your order). or at...
<http://literature.agilent.com/litweb/pdf/5968-4716E.pdf>

MSA-1105: Hewlett-Packard MMIC broadband and stable RF amplifiers
featuring near-DC-1.3 GHz freq. response.

These are taped and reeled and feature leads configured for surface-mounted

applications. Specs are
available at HP's web site (or with your order). or at...
<http://literature.agilent.com/litweb/pdf/5965-9557E.pdf>

These devices are taped and reeled and are supplied as a length of cut tape. The price: \$.50 each, \$10.00 for 35 pieces, or \$20.00 per 100 pieces, mixed or all of one type, plus postage. (For a couple of additional varieties of MMICs and more RF parts, request a copy of my FS list.)

If anyone out there has built the DDS VFO and would like a couple of evaluation samples of each type, I'll supply them gratis ***to the first e-mail responder*** if you promise to give the devices a try in the circuit in timely fashion and report your results to the group.

Incidentally, if you're interested in experimenting with these versatile little devices, this is an excellent opportunity to stock up. Agilent's web site includes S parameters for modeling and also a few application notes.

73--
Brad AA1IP

Brad Thompson, Bookseller
P.O. Box 307
202 Whitaker Rd.
Meriden, NH 03770-0307

Now honoring PayPal

At 04:20 PM 07/25/2003 -0700, James R Giammanco wrote:

>Re: <http://www.qsl.net/kg6cyn/DDS_Project.htm>

>

>In getting together a parts order I discover that the Panasonic
>mechanical

>encoder (DigiKey P80695-ND) is no longer a stocked item. Has anyone a
>suggestion for a good substitute? The description
>indicates it has Gray code output.

>

>On a related topic - any plans yet for a group buy of the MiniCircuits
>amplifier needed for the project? They can be had for \$1.42 each but ya
>gotta buy in lots of 10. I'm tempted, but don't want to duplicate
>efforts.

>Looks like 3 for \$6, postpaid, would be feasible. that would allow for
>P&H

>from MiniCircuits and postage to send them out.

>

>73

>Jim N5IB

>

>

>

>

>

>-----
>The best thing to hit the internet in years - Juno SpeedBand!

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>Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Fri, 25 Jul 2003 21:05:56 -0400

From: "Robert K. Henderson" <rk@sympatico.ca>

To: <qrp-1@lehigh.edu>

Subject: [154946] Learning code

Message-ID: <BB474A18.860%rk@sympatico.ca>

Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

The best way to learn code that I've found, especially when it comes to internalising numbers, punctuation, prosigns and the like, is to copy real traffic. When I was 12 my mom gave me a second-hand Heath ham receiver for Christmas. I also got a taped code course. I listened to the cassettes for a few days, until I could copy random letters at 4 wpm or so. Then I went straight to the old HR-10 and started copying traffic. I didn't get solid copy for a long while, but it's a lot more fun than boring tapes or computer programmes. Plus I learned to deal with real-world problems like QRM, QSB, and Mom vacuuming, to say nothing of CW "Pig Latin." I started earning a self-awarded CAS (Copied All States) certificate, and the gaps in my copy gradually filled in.

Call signs and RST reports took care of the numbers. I also learned the Q signals, from a hand-copied list tacked to the wall above the HR-10. But I think the most valuable thing I got was operating skills. Most of the lousy op'ing on the bands today comes from neophytes who don't have adequate experience or instruction. Their bad habits eventually become standard practice, to the detriment of us all. But if you've been a ham radio stenographer, you're well educated in on-air etiquette before you even make your first QSO. By then, good op'ing is second nature.

I didn't go through any of the drudgery I hear others go through, and won

the 20 WPM endorsement with my Novice test. The VEs were amazed, but it's really nothing special. Just turn on the radio and start doing it. Seemed like a no-brainer when I was 12 ;-)

One thing though, we still had Novice bands in those days (late 70s), so learners could copy a range of QRS fists. Also, hams commonly traded addresses on-air, and that was an excellent source of numbers.

But that's still my advice to code learners. Once you've memorised the characters, go straight to real traffic. You'll get very little at first, but you have to realise that what you do get is a victory, even if it's just the odd letter. As time goes by you'll copy more, and it's a real high. For me, learning code was addictive; the faster I copied, the faster I wanted to copy. I originally planned to move to SSB when I got my General ticket, but I never did. Today I'm a hardcore brasspounder who doesn't even own a mic, and I'm sure it's because of those wonderful nights in my bedroom with the HR-10.

My best to all learners. Hang in there, and when you get your HF privileges, look for me on-air.

--

Rob "Honoured to QRS" Henderson
KB7PWJ (soon VE)

See my article "Low Power, Crummy Antenna," QST, December 1999. PDF file available from the ARRL website:

<http://www.arrl.org/tis/info/pdf/9812057.pdf>

Date: Fri, 25 Jul 2003 19:19:30 -0600
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [154947] Re: Long shot... SMT diode
Message-ID: <5.1.1.6.2.20030725191340.00a3f3e0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Jason,

What kind of package is it--how many leads? Most SMT small-signal diodes will be either a SOT-23 (three pins--two on one side, one on the other) or SOD123(?), which is a bit bigger and has one lead at each end. If there's more leads, it's probably an IC or multi-part array.

72,
--Tim (KROU)

>Jason Hisson <jhisson1@columbus.rr.com>:

>

>I know this is a long shot, but I am trying to get a GPS receiver
>working. The GPS receiver was for a Palm III but the antenna does not
>seem to work very well. ANYways, I was drilling a hole in the plastic
>case for a BNC connector and the drill slipped (I know, dumb for me to
>drill in close proximity to the board!!). The chip that came off says
>A475 and has a bar on one end of it. So I assumed it is a diode.
>Anyone know what type of diode that would be? I am thinking I may be
>able to replace it with a regular diode.

Date: Fri, 25 Jul 2003 21:11:14 -0400
From: Peter Burbank <peterlee@qx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154948] Re: Glue and toroids
Message-ID: <5.2.0.9.0.20030725205551.009f77e0@mail.qx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 06:35 PM 7/25/2003, Lawrence Makoski wrote:

>When I built my LDG autotuner from a kit, LDG recommended hot glue or
>RTV.

>

>73 de Larry W2LJ

There are different versions of RTV. The stuff that smells like vinegar
contains acetic acid and will cause corrosion.
I'd go with the hot glue or hunt down the electronic version of silicone
rubber. An earlier post mentioned gasket
material so Permatex might be a source, if not maybe GE or Dow Corning.
73 Pete NV4V

Date: Fri, 25 Jul 2003 21:25:31 -0400
From: "Robert K. Henderson" <rkh@sympatico.ca>
To: <qrp-l@lehigh.edu>
Subject: [154949] Re: Lyle: YES!

Message-ID: <BB475098.861%rkh@sympatico.ca>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Lyle's experience is incredibly similar to my own, right down to the Globe Chief 90A. Man, I loved that old toaster oven! You could do anything to it... and I did! I once keyed down with no antenna connected...

But I digress. Lyle is absolutely right. Eternal shame on those alleged hams that he and I both knew who refused to help us, who are still out there refusing to help others. To heck with your contests and repeaters and DXpeditions and satellite-this and homebrew-that. I'm already on record on this list as saying that what this hobby needs is a whole lot less arrogant nerds (recruit in EE programmes? isn't that how we got here?) and a WHOLE LOT MORE ELMERS!!!!!!! Elmer's a verb, brothers and sisters. It's what hams do. If you're not doing it, you're not a ham.

I love beginners. I help beginners. I work beginners. If I had a bumper sticker, it would say "I QRS FOR BEGINNERS." The younger they are, the less they know, the fewer hams they have in their circle of acquaintance, the more I'm interested in helping them. I'm a HAM.

Here's my suggestion for reforming the ham radio exams. Get rid of the entire question pool and just put one sentence on the paper: "How many hams are on the air now, who wouldn't be if you hadn't helped them?" If the number's too low, you don't upgrade.

You wanna save this service? That's how.

--

Rob Henderson
KB7PWJ

See my article "Low Power, Crummy Antenna," QST, December 1999. PDF file available from the ARRL website:

<http://www.arrl.org/tis/info/pdf/9812057.pdf>

Date: Fri, 25 Jul 2003 21:32:25 -0400
From: Fran Flynn <fflynn@adelphia.net>
To: jhisson1@columbus.rr.com
Cc: qrp-l <qrp-l@lehigh.edu>
Subject: [154950] RE: Long shot... SMT diode

Message-ID: <3F21DA29.4000809@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

It might be a small electrolytic capacitor, 4.7uf. 475 is 47 and a multiplier of 5 zeros, the value is in picofarads. 4,700,000 pf would be 4.7 microfarad.

The band indicates polarity.

Good luck with it

Fran KM1Z

Date: Fri, 25 Jul 2003 19:47:03 -0600
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [154951] Re: on line lic reg...
Message-ID: <5.1.1.6.2.20030725193548.00a02ec0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Steve names the big sticking point: you need to associate your CORES number to your call before it will work. That isn't obvious at first glance, but the help file tries to explain it all...read it a couple of times, and don't try to skip any of the steps ;^)

The annoying surprise (for us rural dial-up users) is that it takes some BIG java add-ins to make this all work. Plan on some download time. Persevere, and you'll get the job done. Or you could get a paper form and (gasp!) mail it.

72,
--Tim (KR0U)

>Steven Weber <kd1jv@moose.ncia.net>:
>
>Basicly, there are three steps.
>
>1. Go to the ULS home page (linked from FCC home page) Click on new user.
>Fill out the form. At the bottom of the form it askes you to chose and
>enter a 6-16 character pass word of your chosing, or it can generate one
>for you. Be sure to note it down!

>
>As soon as you submit the form, it will give you a CORES number, which
>appears at the top of the page. Note this number down too.
>
>2. Now you need to associate your call with the CORES number. There is a
>direct link from the registration form or go back to the ULS home page.
>There's room to enter 100 calls, but just enter your ham call in the first
>box.
>
>3. Now find the renew license link. It doesn't specifically state amateur
>radio, as you can renew any type of FCC license here.
>It will ask you for your CORES number and password. Fill in that form.
>(basically your name, address and SS number) Submit that form and it will say
>you have been renewed. There is a different link if you need to change your
>address, etc.
>
>I plan on noting my CORES number and password on the back of my new
>license, so I'll know where to find them 10 years from now!

Date: Sat, 26 Jul 2003 01:49:22 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: Brad.Thompson@valley.net, qrp-1@Lehigh.EDU
Subject: [154952] Re: Making etched circuit boards ??? somewhat OT.
Message-ID: <Law15-F71z7EjQxzmWe0000ae36@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Brad Thompson <Brad.Thompson@valley.net>
>Reply-To: Brad.Thompson@valley.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Re: Making etched circuit boards ??? somewhat OT.
>Date: Fri, 25 Jul 2003 16:40:01 -0400
>

[deleted]

>I agree that making one's own printed-circuit boards is educational and
>also a useful
>skill to have, but one's time is valuable, too, and getting three finished,
>professional-quality
>PC boards for \$62.00 doesn't compare at all unfavorably with the DIY route.

I make quite complex PCBs at home in about 30 minutes using conventional UV exposure techniques.

A 6 sq. in. board probably costs me less than \$3 in materials, including the odd broken carbide drill bit.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

Get Hotmail on your mobile phone <http://www.msn.co.uk/msnmobile>

Date: Fri, 25 Jul 2003 18:49:24 -0700
From: "john gabbard" <johngabbard@usintouch.com>
To: <rkh@sympatico.ca>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154953] Re: Learning code
Message-ID: <001701c35318\$24896350\$8b811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Still is a no brainer Robert, only some no brainers tend to disagree with you! but you know the truth right? you bet! 73 John KF70M

----- Original Message -----

From: "Robert K. Henderson" <rkh@sympatico.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 25, 2003 6:05 PM
Subject: Learning code

> The best way to learn code that I've found, especially when it comes to
> internalising numbers, punctuation, prosigns and the like, is to copy real
> traffic. When I was 12 my mom gave me a second-hand Heath ham receiver for
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> few days, until I could copy random letters at 4 wpm or so. Then I went
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> I never did. Today I'm a hardcore brasspounder who doesn't even own a mic,
> and I'm sure it's because of those wonderful nights in my bedroom with the
> HR-10.
>
> My best to all learners. Hang in there, and when you get your HF
privileges,
> look for me on-air.
>
> --
>
> Rob "Honoured to QRS" Henderson
> KB7PWJ (soon VE)
>
> See my article "Low Power, Crummy Antenna," QST, December 1999. PDF file

> available from the ARRL website:
>
> <http://www.arrl.org/tis/info/pdf/9812057.pdf>
>
>
>

Date: Fri, 25 Jul 2003 22:00:57 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154954] Elmer 160: Beginning PIC applications
Message-ID: <066b01c35319\$c2915ca0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Ok Gang,

There has been a terrific response to the call for interested parties in a PIC Elmer session, so I guess it's a go. Besides the notes you saw on the reflector, I got close to 50 emails direct. I've already started preparing.

One thing that concerns me is the parts. Most everything I plan to use you probably already have or you can get at Radio Shack. The two exceptions are the PIC itself and the crystal.

Here's the kicker ... the PIC is six bucks and the crystal a buck at DigiKey. *BUT*, DigiKey has a \$25 minimum order and they ship UPS, which means your \$7 order will cost you AT LEAST \$21 (depending on where you are and how much of a hurry you are in). Of course, it's not hard to find other things you need at DigiKey, but not everyone may be inclined to use this as an excuse to stock their parts drawers.

There's a pretty sizeable price break on PICs at 25, so if we did a group buy, it would probably be possible to get the PIC and crystal for less than \$10 including Priority Mail.

I haven't made up the full parts list yet, but besides diodes, resistors, connectors, buttons and something to build on, the only other significant parts are a DB 25 connector, an 18 pin socket, and 12 and 5 volt regulators. My local RS had all of these last week when I was there, but I understand that the parts drawers are getting mighty slim at some of the stores.

Do we need to get together an entire parts kit? I'm guessing that most folks have most of the stuff, but maybe that's not the case.

Please, from here on, include Elmer 160: on any correspondence. My spam filters are pretty tough anymore and I've been fishing a lot of stuff out of the spam bucket. It's pretty easy to miss stuff in there.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Fri, 25 Jul 2003 22:06:07 -0400
From: "Pablo L. Robles" <wp4jxd@isla.net>
To: qrp-l@lehigh.edu
Subject: [154955] Re: PIC Elmer Series?
Message-ID: <3F21E20F.1090806@isla.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Gang count with me on this one! I have played around with 16F84As but not enough to feel confident to design something useful with it. Think I can definitely learn a lot with this elmer experience.

72,

Pablo
WP4JXD

>
>

Date: Fri, 25 Jul 2003 19:04:37 PDT
From: James R Giammanco <n5ib@juno.com>
To: qrp-l@Lehigh.edu
Subject: [154956] RockMite QSO
Message-ID: <20030825.210116.4631.3.n5ib@juno.com>

Just had a QSO with Tom, K4THL, in FL. He was using his QRO RockMite (600 mW) and reported 45 states worked so far. He was a legit 559 in LA. We tried a 2 x RM QSO but my 400 mW wasn't making the trip, so reverted to my K2 at 5 W. Tom had been my first QSO with my RM (2 x RM that time) back when I finished it last winter. I wonder if anyone's made RM-WAS or

is Tom about the closest to that milestone. Given the fixed RX as well as TX I'll consider that feat on 20 m right up there with 40 m TT2-WAS.

On another note - just before the QSO with Tom I worked an HK4 in Columbia. He was making his first QSO. I had CQ'ed at 20 WPM and Andrew answered at about 5 and asked for slow. We went about 6 WPM in the QSO and he copied just fine. So remember gang, QRS when needed and help recruit some new CW hands.

72

Jim N5IB

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Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Fri, 25 Jul 2003 22:20:36 -0400
From: "Lawrence Makoski" <Makos327@worldnet.att.net>
To: <peterlee@qx.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154957] Re: Glue and toroids
Message-ID: <020601c3531c\$80ace4f0\$de55590c@larrysahyqy001>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry about that! Forgot to mention that - thanks Pete! I meant the kind of RTV that you would normally find at a good electronics store. Worse comes to worse, tell the guy behind the counter what you'll be using it for ... odds are he'll point you in the right direction.

73 de Larry W2LJ

W2LJ@arrl.net
<http://www.qsl.net/w2lj>

ARRL Lifemember QRP ARCI #4488 NJQRP #47
FISTS #1469 QRP-L #778 FP #612 QRPp-I #759
ARS #1528 --- K1 #1647

----- Original Message -----

From: "Peter Burbank" <peterlee@qx.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, July 25, 2003 9:11 PM
Subject: Re: Glue and toroids

> At 06:35 PM 7/25/2003, Lawrence Makoski wrote:
> >When I built my LDG autotuner from a kit, LDG recommended hot glue or
> >RTV.
> >
> >73 de Larry W2LJ
>
> There are different versions of RTV. The stuff that smells like
vinegar
> contains acetic acid and will cause corrosion.
> I'd go with the hot glue or hunt down the electronic version of
silicone
> rubber. An earlier post mentioned gasket
> material so Permatex might be a source, if not maybe GE or Dow
Corning.
> 73 Pete NV4V
>
>
>

Date: Fri, 25 Jul 2003 22:20:59 -0400
From: "AI2Q" <ai2q@adelphia.net>
To: <jpkoon@nc.rr.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [154958] RE: on line lic reg...
Message-ID: <000101c3531c\$8ebf5780\$7e01a8c0@hq.cmp.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I followed the ARRL instructions to the letter, and it took me about ten
minutes to renew my ticket.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687
<http://users.adelphia.net/~alexmm/ai2q.htm>

.-.-.

Date: Fri, 25 Jul 2003 20:46:03 -0600
From: "NR5A" <nr5a@rap.midco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154959] Miles Per Watt Formula?
Message-ID: <002501c35320\$0e6206b0\$3865dc18@jerry>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Is there anykind of Miles Per Watt calucator online? Something like I give my call, then the call of the station I worked, the my power and hit enter and Bingo get the milage? Just wondering as it sure would make it easy.

Jerry - NR5A - South Dakota

Date: Fri, 25 Jul 2003 19:45:44 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: "John J. McDonough" <wb8rcr@arrl.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154960] Re: Elmer 160: Beginning PIC applications
Message-ID: <000501c35320\$22eb2300\$436aadcf@RadioRoom>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Friends,

I am really excited and grateful for John's offer to tutor the rest of us.
I am really looking forward to "going back to school."

I'd like to toss out a question to those involved in the tutorial. Would it be practical to include a once-a-week discussion or perhaps a Q&A session using Echolink? I have used Echolink on several different occasions to talk with others about techie subjects and have found it to be a very useful communication tool.

=====
Bill Jones KD7S <><
<http://www.psnw.com/~kd7s>
Sanger, California
=====

Date: Fri, 25 Jul 2003 21:46:19 -0500
From: Bud Rogers <budr@netride.net>
To: qrp-1@Lehigh.EDU
Subject: [154961] Re: Learning code
Message-ID: <200307252146.19214.budr@netride.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

On Friday 25 July 2003 20:05, Robert K. Henderson wrote:

> really nothing special. Just turn on the radio and start doing it.
> Seemed like a no-brainer when I was 12 ;-) .

Sometimes the deepest wisdom comes in the simplest words. Nice sig too.

--
Bud Rogers <budr@netride.net> KD5SZ

Date: Sat, 26 Jul 2003 03:01:12 +0100
From: "Norman Zoltack" <k3nz@enter.net>
To: <n5ib@juno.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154962] Re: RockMite QSO
Message-ID: <000e01c35319\$ca804e80\$d8a4c1d8@normanzo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Congrats to Tom, K4THL for his RM success. I also would like to make WAS with my RM 20 (275mw!) I have 45 states also (including KH6 & KL7) and also 15 DXCC countries including about 4 Europeans and my best dx was VK4 (about 10K miles!) All from Eastern PA. Never had so much fun with ham radio in years! Best bang for the buck!!!

P.S. All the states I need are close by-RI, VT, MD,NJ, DEL!!!!

Good luck Tom and all other Rockmiters!!! 73 de Norm K3NZ

----- Original Message -----
From: James R Giammanco <n5ib@juno.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Saturday, July 26, 2003 03:04 Z
Subject: RockMite QSO

> Just had a QSO with Tom, K4THL, in FL. He was using his QRO RockMite (600
> mW) and reported 45 states worked so far. He was a legit 559 in LA. We
> tried a 2 x RM QSO but my 400 mW wasn't making the trip, so reverted to
> my K2 at 5 W. Tom had been my first QSO with my RM (2 x RM that time)
> back when I finished it last winter. I wonder if anyone's made RM-WAS or
> is Tom about the closest to that milestone. Given the fixed RX as well
> as TX I'll consider that feat on 20 m right up there with 40 m TT2-WAS.
>
> On another note - just before the QSO with Tom I worked an HK4 in
> Columbia. He was making his first QSO. I had CQ'ed at 20 WPM and Andrew
> answered at about 5 and asked for slow. We went about 6 WPM in the QSO
> and he copied just fine. So remember gang, QRS when needed and help
> recruit some new CW hands.
>
> 72
> Jim N5IB
>
>
>
> -----
> The best thing to hit the internet in years - Juno SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
> Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Fri, 25 Jul 2003 23:05:17 -0400
From: Jason Hissong <jhisson1@columbus.rr.com>
To: tcgroat@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154963] Re: Long shot... SMT diode
Message-ID: <3F21EFED.7090500@columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

It appears to have two connectors that come into one big one on each side. So I am thinking it is a capacitor like you guys mentioned. I will pick up a 4.7uF and try it out... got nothing to lose. However, I forgot which way it went in!! grrr... I think I remember, but I will find out...

Thanks again

72

Jason Hissong
N8XE

Tim Groat wrote:

> Jason,
>
> What kind of package is it--how many leads? Most SMT small-signal diodes
> will be either a SOT-23 (three pins--two on one side, one on the other)
> or SOD123(?), which is a bit bigger and has one lead at each end. If
> there's more leads, it's probably an IC or multi-part array.
>
> 72,
> --Tim (KR0U)
>
>> Jason Hissong <jhisson1@columbus.rr.com>:
>>
>> I know this is a long shot, but I am trying to get a GPS receiver
>> working. The GPS receiver was for a Palm III but the antenna does not
>> seem to work very well. ANYways, I was drilling a hole in the plastic
>> case for a BNC connector and the drill slipped (I know, dumb for me to
>> drill in close proximity to the board!!). The chip that came off says
>> A475 and has a bar on one end of it. So I assumed it is a diode.
>> Anyone know what type of diode that would be? I am thinking I may be
>> able to replace it with a regular diode.
>
>
>
>

Date: Fri, 25 Jul 2003 22:17:37 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: nr5a@rap.midco.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154964] Re: Miles Per Watt Formula? [Almost]
Message-ID: <3.0.2.32.20030725221737.007041fc@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jerry,

Try this one --

<http://www.qsl.net/n9ssa/mpwcalc.html>

At 08:46 PM 7/25/03 -0600, NR5A wrote:

>Is there anykind of Miles Per Watt calucator online? Something like I give
>my call, then the call of the station I worked, the my power and hit enter
>and Bingo get the milage? Just wondering as it sure would make it easy.

>

>Jerry - NR5A - South Dakota

>

>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 <http://www.netxqrp.org>

Date: Fri, 25 Jul 2003 23:19:29 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154965] Re: Learning code
Message-ID: <003101c35324\$bf64fae0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, this bickering about code / no-code just won't ever seem to end.

No matter what, people seem to want to just stick in negative comments, one way or the other.

It's not gonna end until the code / no-code war ends.

It makes me want to write a letter to the FCC to say just get it over with so that HAMS can finally grow up and move on!

If it makes me feel that way, how the heck do you think it makes prospective HAMS feel? The guy who may be a technocode now? The engineers that don't have a HAM license, and are thinking about it?

You want to loose the code sooner? Keep up the childish BS. Want to make sure that when they DO bring up reevaluation of spectrum for 'reserved space' for CW that all the people you're impressing now with

comments about 'no brainers' and 'cb plussers' recall the comments and how they feel about the people who use CW? Some people are doing a great job. Little people that just HAVE to be 'cute' to show others what 'big HAM radio operator men' they are...

All the childish and immature comments about the 'non-cw' people are doing is building a wall. A wall that keeps possible future converts out.

If this weren't a list read by family members I have the perfect adjective I could use for some of you people. But I can't. All I can say is that when the boom falls, you not only made it fall on yourselves, but you made sure you and others were standing right at ground zero.

I'm sorry, but if this keeps up, we deserve whatever happens.

Mike

Date: Sat, 26 Jul 2003 00:46:18 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [154966] Whoa! New Zealand on 20 m RTTY with the IC-703 !
Message-ID: <BAY1-F111ixjnzi95Hf0000687b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Keeping my fingers crossed on the fix for my Icom IC-703.
Was probing around with an ancient plastic Heathkit tuning tool while the rig was transmitting into the Heathkit Antenna.
Well, every time I pressed down on this one driver transistor, the power output sprang up to where it oughta be!
So, dragged out the old Ungar 27-watt soldering iron...you know...the one with that ENORMOUS 1/8-inch chisel tip...and re-flowed all that transistor's joints and...VOILA!
Like I said...keeping my fingers crossed :)
So, some sort of RTTY contest going on tonight...
Happened across ZL2AMI, Wellington, New Zealand on 14082.79 Khz (mark freq)...gave 'im a call at 5 watts out and he came right back! Happy days are here again!
Did I mention that I'm keeping my fingers crossed?
IC-703 service manual should be here next week...just couldn't wait :) :)
:)

73.
Bill, N4QA

<http://www.n4qa.com>

Help STOP SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Sat, 26 Jul 2003 01:20:59 -0400
From: "George Osier" <gosier@twcnny.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [154967] CY9A ...GOT EM !!!
Message-ID: <004f01c35335\$b2b53ce0\$74883a18@twcnny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All !!!!!

Got CY9A with 5W on 40 meters (up 4 split)
BIG PILEUP !!!!!
New QRP country for me !!!!

71s

George , N2JNZ / QRP

Date: Fri, 25 Jul 2003 23:50:37 -0700
From: "Bill Linn" <blinn@smgazette.com>
To: "John J. McDonough" <wb8rcr@arrl.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154968] Re: Elmer 160: Beginning PIC applications
Message-ID: <00df01c35342\$38f2f7a0\$a070ef42@wa7tqk>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

John,
Seems like you are asking for opinions (help?) on a group buy for the parts.
>From where I sit in North Idaho, it sounds like a wonderful idea! So, what
say guys?

Regards,

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Sat, 26 Jul 2003 06:34:16 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: budr@netride.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154969] Re: Learning code
Message-ID: <3F225928.1DCB102@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Did you ever attend grade school/ Were there some kids who learned at a slower rate than you? Or, were you in the slowest group.

It's a known fact that people learn at different rates. It's people who put them into the "stupid" category, when given some special attention they will learn like almost anyone.

"No brainer" is a derogatory comment, and should have no place on this list!

73

Date: Sat, 26 Jul 2003 06:51:41 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: rkh@sympatico.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154970] Re: Learning code
Message-ID: <3F225D3D.A2ED2F80@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, that's about the same way I learned code. I had records, not tapes. Unfortunately they did me very little good, because I could not bridge the gap between memorizing the records and what I heard on the air. Code is a sound language. If you don't learn it by sound you will always be a little bit slow, while you look up the character in your look

up table.

I do agree that copying off the air is the best way. Listen to W1AW code practice, if it is still sent. Copy contests, copy regular QSO's., but copy it the way you will use it.

Oh, and stop saying it is easy. It might have been easy for YOU, but it may still be hard for others.

73

Date: Sat, 26 Jul 2003 06:38:18 -0500
From: Bud Rogers <budr@netride.net>
To: qrp-1@Lehigh.EDU
Subject: [154971] Re: Learning code
Message-ID: <200307260638.18980.budr@netride.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

On Saturday 26 July 2003 05:34, Bruce Muscolino wrote:

> "No brainer" is a derogatory comment, and should have no place on
> this list!

Rob said "Seemed like a no-brainer when I was 12." I didn't take that as being a derogatory comment, and I don't think Rob meant it that way. When you're 12 you can do the most extraordinary things because you don't know they are hard.

--
Bud Rogers <budr@netride.net> KD5SZ

Date: Sat, 26 Jul 2003 12:49:53 -0100
From: "Julian (G4ILO)" <g4ilo@qsl.net>
To: Bruce Muscolino <w6toy@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154972] Re: MFJ Cub 20m drift problem
Message-ID: 661141179953491226072003@excelsior.tech-pro.co.uk

No, I haven't contacted MFJ yet. Do they have an email address for tech help? They don't seem to have much of a reputation for customer support (well, not a good one, anyway.) It's a pity there isn't a dedicated reflector for builders, like Elecraft has.

I took the cover off to check what you suggested, although I didn't expect to find anything bad. It all tuned up perfectly, power out was exactly what I expected, power consumption is OK and so on.

The heat sink remains cool to the touch. Even after a long CQ it is barely warm. Even with the lid off, so any heat can go away, nowhere near the VFO stage, it still starts to drift after about a minute of TX, and for a minute or so after.

Now here's the odd thing. I found that I by blowing warm air on to the VFO it drifts the opposite way (HF) than it did before. I can make it drift LF, like it does after TXing, by fanning *cool* air on to it with a magazine. So whatever is making it drift, I don't think it's heat.

I thought the culprit might be power supply drift. I tried three separate power supplies, a 12V 500ma wall wart, the 14V PSU I use for my K2, and a battery pack made up of ten 1800mAH NiMH cells. It drifts the same way with all of them, though the drift seemed to be greatest when running from the 14V supply, when I get nearly 2W out. I've checked both the input voltage and the voltage out of the 8V regulator for the VFO and I can see no change, (0.01V resolution) although the rig's frequency does shift almost 1kHz if I change between the 12V wall wart and the 14V PSU so I guess the varicap control voltage isn't as stable as it ought to be. I thought I saw a mod somewhere that addressed this problem, but I'm darned if I can now find it.

The other thing I notice is a rough sounding note if I power the Cub off either of the mains power supplies. It isn't so noticeable if you tune in the signal, but move off a few hundred Hz and you can detect a bit of a buzz. I've heard worse signals on the air (and I've heard stations that drifted more, too) but I'm not really happy about it.

I guess I'm just too spoiled by professional stuff like my K2 to ever be satisfied with simple rigs like this.

73,

--

Julian, G4ILO. (RSGB, ARRL, G-QRP)

G4ILO's Shack: <http://www.qsl.net/g4ilo>

==== Original message ====

> Have you contacted MFJ directly about the problem. It seems to me that
> your heat sink must be getting way to hot. It sounds like it is getting
> too hot to touch almost immediately. This should not be so, in the
> first few minutes, even over longer periods, it should remain cool t the
> touch. Check out other parts of the final circuit. You may have a bad
> resistor. Look around a bit.
>
> 73
>

Date: Sat, 26 Jul 2003 08:01:17 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: Alex <kr1st@amsat.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154973] Re: Code Rqm't comment
Message-ID: <20030726080047.E39100-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Jul 2003, Alex wrote:

> and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
> gotten any smarter, now would you? :)

No....I wouldn't even entertain the thought.

Thom

baltimoremd@baltimoremd.com	Thom LaCosta K3HRN Webmaster
http://www.baltimoremd.com/	Baltimore's Home Page
http://www.baltimorehon.com/	Home of the Baltimore Lexicon
http://www.zerobeat.net	Home of The QRP Web Ring and DrakeList
http://www.tlchost.net	Web Hosting as low as \$3.49/month

Date: Sat, 26 Jul 2003 08:17:23 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: myetsko@insydesw.com

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154974] Re: Learning code
Message-ID: <3F227153.CCE698B4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Life was sure simpler when there was no choice. You either learned the code or you didn't get a license. I seems to me that the prospective ham had only one choice, learn the code. Now he has two choices, learn the code or pray that the FCC changes the rules. Personally I'd learn the code, it's simpler than waiting for the government.

The countless number of engineers out there can just learn the code too, it's simpler than learning differential equations!

73

Date: Sat, 26 Jul 2003 08:31:29 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "Julian (G4ILO)" <g4ilo@qsl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154975] Re: MFJ Cub 20m drift problem
Message-ID: <3F2274A1.3B86F5F7@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well either I misunderstood your problem or you didn't express it very well. You should have told us about the drift caused by blowing hot or cold air on the VFO. You also should have told us the heat sink remained cool to the touch.

I don't know what URL you use to contact MFJ service directly, but I'll bet contacting MFJ directly would get you pointed the right way.

Now, to your problem. I don't know what VFO circuit the Cub uses, butt a look at the circuit will tell you. There are two components that can cause the drift you see. The coil or the capacitors across it. I would first look at the temperature coefficient of the capacitors. You should be able to buy a replacement capacitor with a better temperature coefficient at your local parts stockist. Try that.

I admire your comments about Elecraft. If they are so damn good why didn't you spring for one? I'd bet you wanted a simpler rig, a rig to learn on. Now you have ti learn, do it.

Date: Sat, 26 Jul 2003 08:47:44 -0400
From: Ray Sills <raysills@1stconnect.com>
To: QRP list <qrp-l@lehigh.edu>
Subject: [154976] Learning the code
Message-ID: <5A5B885E-BF67-11D7-83C8-003065EAB9EC@1stconnect.com>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

HI Gang:

My big help was listening to W1AW. At first, I used the normal code practice transmissions, since you could "check" you copy by looking back in a prior QST. After a while, I started listening to the bulletin transmission. At 18wpm, it was tough, but you quickly discover that there is a lot of redundant items in each bulletin.. e.g. QST DE W1AW HR ARRL BULLETIN NR ... etc. I became easy to copy "Newington" at 18wpm. But, it was good practice, and after listening to 18 for a half hour or so, 13 was a piece of cake.

73 de Ray
K2ULR
FN20t1

Date: Sat, 26 Jul 2003 09:37:26 -0400
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [154977] Re: Glue and toroids
Message-ID: <3F228415.B239474F@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've used Shoo-Goo successfully to hold down many things, like toroids battery holders in Altoids tins, etc. This is a RTV-rubber-like stuff in a tube, that hardens quickly enough (and slowly enough) to make it manageable. Use as small enough a quantity as you can, in case you might want to remove the component later, by cutting with a knife or razor blade. I get it at the local Sports Authority,...it is sold to repair sneakers. I haven't done any scientific RF-loss tests on it though.

73, Ed, K2MGM.

Date: Sat, 26 Jul 2003 10:00:39 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [154978] Re: Elmer 160: Beginning PIC applications
Message-ID: <5.1.1.6.1.20030726095351.00b1aa58@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:00 PM 7/25/2003 -0400, you wrote:
>Here's the kicker ... the PIC is six bucks and the crystal a buck at
>DigiKey. *BUT*, DigiKey has a \$25 minimum order and they ship UPS, which
>means your \$7 order will cost you AT LEAST \$21 (depending on where you are
>and how much of a hurry you are in). Of course, it's not hard to find other
>things you need at DigiKey, but not everyone may be inclined to use this as
>an excuse to stock their parts drawers.

John,

Which PIC and crystal do you plan to use? Mouser <www.mouser.com> carries some Microchip parts. They have no minimum order, and you have a choice of UPS or FedEx (including FedEx Ground, which I've found to be a little cheaper than UPS and they deliver on Saturday for no extra charge).

Dave

Dave Hinerman
WD8CIV@att.net

Date: Sat, 26 Jul 2003 00:34:44 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154979] Re: Code Rqm't comment
Message-ID: <3F2204E4.10930AAB@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thom LaCosta wrote:

>

> On Fri, 25 Jul 2003, Alex wrote:
>
> > and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
> > gotten any smarter, now would you? :)
>
> No....I wouldn't even entertain the thought.

What thoughts *do* you entertain, Thom? :-)

Btw, 20 meters has been great for me the past couple of evenings. The wire I added to the inverted V to convert the antenna into a delta loop seems to really have done the trick. But it may be too early to tell as I only have operated with it for a few evenings.

73,
--Alex KR1ST

Date: Sat, 26 Jul 2003 09:11:48 -0500
From: Rob Matherly <w0jrm@arrl.net>
To: qrp-l@lehigh.edu, fpqrp-l@fpqrp.com,
rathbun_area_hams@yahooogroups.com
Subject: [154980] R.I.P.
Message-ID: <200307260911.48931.w0jrm@arrl.net>
Content-Type: text/plain;
 charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

=3D=3D>TWO RECENT IRAQ WAR CASUALTIES WERE AMATEUR LICENSEES

Two of the most recent casualties of the war in Iraq were Amateur Radio licensees. According to an Associated Press report, Specialist Jon Fettig=

, KC0HSQ, of Dickinson, North Dakota, died July 22 in an ambush on a road some 50 miles north of Baghdad. Another soldier from Fettig's Army National Guard unit was wounded in the attack. Both belonged to the 957th Multi-Role Bridge Company based in Bismarck. Fettig, 30, a member of an engineering unit in Dickinson, had volunteered to fill a vacancy in the Bismarck company to bring it up to full strength. A Guard member for some 11 years, Fettig died at the scene of the ambush.

On July 23, Nadisha Yassari Ranmuthu, 4S7NR--an international Red Cross aid worker from Sri Lanka--was shot and killed and his Iraqi driver wounded after their vehicle, marked with the Red Cross emblem, came under fire south of Baghdad. Ranmuthu, 37, a communications engineer for the International Committee of the Red Cross (ICRC), reportedly died

instantly. The Red Cross has 850 staffers now working from eight bases in Iraq. Ranmuthu was there to install communications equipment at Red Cross offices and to help train Iraqi operators to use it, news accounts said.

72/73/oo
Rob, w0jrm

Date: Sat, 26 Jul 2003 08:43:17 -0600
From: "Dave Ek" <ekdave@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154981] Re: Elmer 160: Beginning PIC applications
Message-ID: <001601c35384\$4096f7d0\$6801a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

John,

Another source for the parts is Jameco (www.jameco.com). Although their catalog says they add a \$5 processing fee to orders under \$20, they don't add the fee when you order over the web. They will ship USPS priority as well as UPS and other means. The PIC16F84 is \$5.95 in singles, and their 4 MHz crystal is 0.89. I've ordered from them many times and have always been satisfied.

Jameco's parts selection isn't as extensive as Digikey's but you can usually find more common parts, and Jameco tends to be cheaper than Digikey for a lot of items.

BTW, Jameco sells bags of 100 1/4 watt carbon resistors for 99 cents. Since you tend to use lots of 1K and 10K resistors when working with PIC parts, maybe that would be a good investment.

73 de Dave NK0E

Date: Sat, 26 Jul 2003 10:43:16 -0400
From: "Dave Richards" <wr3i@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154982] paging Dennis K1LGO!
Message-ID: <DLEKKKNPICJAJBKDDOAP0EBFCHAA.wr3i@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dennis I don't have your e-mail. Have you mislaid some stainless steel nuts and Bolts?

I found some in my tool kit I bet they are from you vertical!

let me know where to send

Regards

Dave W1QB

Date: Sat, 26 Jul 2003 08:55:28 -0600 (CST)
From: Bruce Ratray <rattray@gpfn.sk.ca>
To: Bill Jones <kd7s@psnw.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154983] Re: Elmer 160: Beginning PIC applications
Message-ID: <Pine.LNX.4.33.0307260855070.10461-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Good idea Bill...might be useful...I'm on EchoLink...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sat, 26 Jul 2003 11:27:38 -0400
From: "Dave Richards" <wr3i@earthlink.net>
To: <wr3i@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154984] RE: paging Dennis K1LG0! correction K1LGQ!!!
Message-ID: <DLEKKKNPICJAJBKDDOAPAEBHCHAA.wr3i@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Dave Richards
Sent: Saturday, July 26, 2003 9:43 AM
To: Low Power Amateur Radio Discussion
Subject: paging Dennis K1LG0!

Dennis I don't have your e-mail. Have you mislaid some stainless steel nuts
and Bolts?

I found some in my tool kit I bet they are from you vertical!

let me know where to send

Regards

Dave W1QB

Date: Sat, 26 Jul 2003 10:27:27 -0500
From: Joe Martin <km5cw@arrl.net>
To: qrp-1@Lehigh.EDU
Subject: [154985] Re: R.I.P.
Message-ID: <3F229DDF.3070205@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Thanks for the update Rob, I'll pass it along.
73 de KM5CW

Dallas-Stuck in the middle-Ft.Worth

Rob Matherly wrote:

>==>TWO RECENT IRAQ WAR CASUALTIES WERE AMATEUR LICENSEES

>

>Two of the most recent casualties of the war in Iraq were Amateur Radio
>licensees. According to an Associated Press report, Specialist Jon Fettig,
>KCOHSQ, of Dickinson, North Dakota, died July 22 in an ambush on a road
>some 50 miles north of Baghdad. Another soldier from Fettig's Army
>National Guard unit was wounded in the attack. Both belonged to the 957th
>Multi-Role Bridge Company based in Bismarck. Fettig, 30, a member of an

>engineering unit in Dickinson, had volunteered to fill a vacancy in the
>Bismarck company to bring it up to full strength. A Guard member for some
>11 years, Fetting died at the scene of the ambush.

>
>
>

Date: Sat, 26 Jul 2003 11:31:19 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: Alex <kr1st@amsat.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154986] Re: Code Rqm't comment
Message-ID: <20030726112815.J45911-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 26 Jul 2003, Alex wrote:

> Thom LaCosta wrote:
> >
> > On Fri, 25 Jul 2003, Alex wrote:
> >
> > > and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
> > > gotten any smarter, now would you? :)
> >
> > No....I wouldn't even entertain the thought.
>
> What thoughts *do* you entertain, Thom? :-)

That some folks are like fish in a barrel...it's hard to walk past them.

>
> Btw, 20 meters has been great for me the past couple of evenings. The
> wire I added to the inverted V to convert the antenna into a delta loop
> seems to really have done the trick. But it may be too early to tell as
> I only have operated with it for a few evenings.
>

Sounds like an interesting experiment...every now and again I get the urge
to experiment with an antenna...but my vast real estate holdings are
12 feet wide by 35 feet long.....

I suppose I could try a loop on the roof.

cya
Thom

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>
<http://www.tlchost.net>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring and DrakeList
Web Hosting as low as \$3.49/month

Date: Sat, 26 Jul 2003 11:46:31 -0400
From: "John L. Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [154987] Re: Learning the code
Message-ID: <oprsrcrtr2n9p1ib@smtp.comcast.net>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

> But, it was good practice, and after listening to 18 for a half hour or
> so, 13 was a piece of cake.

Please, Ray, "Piece of Cake" is a non-PC term, just like "no-brainer." To even suggest that you had an easy time learning the code makes other, possible less gifted, or to be more PC, less "CW-enhanced" individuals feel inadequate. Feelings of inadequacy cause frustration and frustration...well, you get the picture.

I remember learning the code. I had to walk five miles, barefoot, in the snow to get to a code practice buzzer. (we couldn't afford an oscillator in those days.)_ It took me weeks to learn "E," "I," "S," and "H," but even though it was hard, I persevered, as the FCC in those days expected you to be able to receive and send, at speeds up to 20 WPM. It was heartless, and things were tough. Many fell by the wayside, and went to a thing called CB. It required no code, or any other knowledge, for that matter. Perhaps they were the ones who saw the future.

John W2AGN

Date: Sat, 26 Jul 2003 00:23:40 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [154988] Digimax D-1200 counter question
Message-ID: <3F22024C.CA75F9FD@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there,

I've just acquired a Digimax model D-1200 frequency counter. It didn't come with a manual or power adapter. I don't even know if it works, but for the price I was very willing to gamble. Would anyone on this list know what the power requirements (V, A, polarity) are for this counter?

Thanks a bunch and 73,
--Alex KR1ST

Date: Sat, 26 Jul 2003 14:06:34 -0400
From: "John Huffman" <hjohnc@core.com>
To: <adventureradiosociety-announcements@mailman.qth.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154989] Flight of the Bumblebees
Message-ID: <002701c353a0\$a6f0fd70\$11075dd8@jhuffmanlt>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The final list of Bees
(http://69.5.23.180/ars/pages/bumblebees/2003bb_roster.html) for Sunday's
contest (http://69.5.23.180/ars/pages/bumblebees/bb_rules.html) has been
posted.

If you can, take pictures and write a few paragraphs about your adventure
for the Soapbox and Sojourner.

We will recognize participants for:
Most interesting equipment,
Most outrageous venture, and
Most beautiful site.

Good luck to all!

73 de NA8M
John

Date: Sat, 26 Jul 2003 15:07:54 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [154990] Update: Frankenkeyer
Message-ID: <3.0.6.32.20030726150754.007c65c0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It's been a while since I last talked about the Frankenkeyer project. That's because it still isn't quite finished yet. Since summer started, I've been busy with other jobs and activities, so it looks like I will not meet my goal of having the keyer ready by August. Maybe by October by this rate <G>

Basically, what's left to do is coming up with a way to enter offsets to the frequency counter function and cleaning up the pcb layout some. Not a whole lot of work, once I have a chance to sit down and do it.

So, what's a Frankenkeyer? It's an iambic keyer with some monster features. 10-40 wpm keyer, with 4 memories and pause, stop and beacon mode control with the paddle.
Real Time Clock with Morse output - time, date and alarm functions.
Battery voltage readout
Frequency counter
Power output meter
Variable pitch side tone in tune mode - requires connection to SWR bridge.

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Sat, 26 Jul 2003 12:57:37 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: KD5NWA@cbayona.com,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154991] Re: Homemade PCB's - Long
Message-ID: <3.0.6.32.20030726125737.007caae0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Cecil,

In my opinion, PnP Blue toner transfer film is still the best way to go. It's a little expensive, \$50.00 for 40, 8.5x11 sheets, but it really works well, once you learn how to use it. You do need to have a laser printer to use it though. You can make the film last longer by using only as much as you need to make the board. You do this by doing a test print first, then cutting a piece of film a little bigger than the board and double side sticky taping it over the area the board was printed on the paper. Then run the paper and film back through the printer. Also put a piece of scrap paper between the film and the previously printed area, or toner will stick to the back of the film and come off on the iron you use to heat the film with.

Available direct from Techniks.com

>spacing of .5 mm or .0196 inches, that's the worst spacing for some

I regularly make SMT layout boards with the film, but the smallest pin spacing I've tried so far is 26 mills and 15 mill lines. This, I think, is about the limit of toner transfer. The toner tends to "bleed" a bit, so you'd have to be real careful not to use too much heat. There is a fine line between just enough and too much heat. I find between 250 and 275 degrees to work best. It varies somewhat with the thickness and size of the board you're making.

I tried Eagle cad lite and found it to be a real clunky program to use with a very steep learning curve. They only give you a small window to draw in and clutter the screen with buttons you rarely use. Circad is much easier to learn and use, plus the only limitation the demo has is you can't make gerber files. The program can be found at holophase.com.

Good luck!

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Sat, 26 Jul 2003 15:07:53 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: "John L. Sielke" <jsielke@pobox.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154992] Re: Learning the code
Message-ID: <20030726145612.L53416-100000@unix1.vhost.min.net>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 26 Jul 2003, John L. Sielke wrote:

> I remember learning the code. I had to walk five miles, barefoot, in the
> snow to get to a code practice buzzer. (we couldn't afford an oscillator in
> those days.)

And...it was uphill both ways!

_ It took me weeks to learn "E," "I," "S," and "H," but even
> though it was hard, I persevered, as the FCC in those days expected you to
> be able to receive and send, at speeds up to 20 WPM.

Aw Gorsh...is this the part where we talk about personal responsibility?

Hope you didn't fail your first FCC cw exam as I did....I copied a string
of E's letter perfect at the beginning of the tape...and when the "real
characters" started, I froze and failed.

Went home disappointed but vowed not to make that mistake again the next
month.

Maybe I should have sued the tape company, or the FCC or the Engineer in
Charge....better yet, gotten the National Association of Italian People to
pressure the FCC to lower the speed requirements for Italians.

73

Thom

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>
<http://www.tlchost.net>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring and DrakeList
Web Hosting as low as \$3.49/month

Date: Sat, 26 Jul 2003 15:12:38 -0400
From: "Lawrence Makoski" <Makos327@worldnet.att.net>
To: <jsielke@pobox.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154993] Re: Learning the code
Message-ID: <004801c353a9\$e1d5ced0\$9750590c@larrysahyqy001>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-15"
Content-Transfer-Encoding: 7bit

I've been watching this "Learning the code" thread for days now; and I've been hesitant about sending a post. There are a lot of you who won't like my opinion; and will probably get all whiney and moaney about it. But I've had it, can't take it anymore; and have to post my feelings.

First of all, I am really getting tired of this PC crap that we all seem to be drowning in these days. I prefer what Harry Truman used to know as "plain speaking".

Bottom line - you want a license from the FCC that will authorize you to get on HF? Then learn Morse Code! You don't want to (or say you can't) ... too bad. Go find something else to occupy your time. Amateur Radio will do fine without you. Maybe I should cut and chew your food for you while I'm at it.

Personally, I don't give a hoot whether or not Morse Code is valid, pertinent or whatever. For now, it's the requirement. If you want to get on HF bad enough, suck it up and learn the code. These days we get so hung up on rights. It's my right to do this, do that, not do this or not do that. Being a radio amateur is a privilege granted by the Federal government. It is not a right. And you have to earn a privilege - it's not something that is given to you at birth; or because you can cry and whine the loudest.

I don't buy for one second this baloney about Amateur Radio dying because of a Morse Code requirement. Amateur Radio is not dying. If there are ups and downs in our numbers of ranks; it's because it's a cyclical thing. The numbers of Hams have been up, dropped down and gone up again. We'll lose alot but probably gain back even more. But the health of Amateur Radio in the long run does NOT, I repeat NOT rely on whether or not there's a Morse Code requirement. The health of Amateur Radio relies on YOU, the established ham becoming an Elmer and mentoring newbies into our fold.

My personal feeling is that the Morse Code requirement should be kept. It provides a sense of honor, history, accomplishment and value. If it were up to me I would have made the license structure the following:

Novice - 5 wpm
General - 10 wpm
Advanced - 15 wpm
Extra - 25 wpm

You want the privilege? Earn it - you don't want to earn it? You don't

belong. When I was in high school; I "couldn't learn the code" either. I went on with my life and did other things. When I got out of college, I realized how badly I did want to be licensed and I buckled down and learned the code. It wasn't easy for me, either; but I did it. I'm sorry if this offends you - but if I did it, you can too.

I'm going to close with this - "When you are given something for free, it is human nature for you not to value it as much as something you've worked hard to earn". My Grandpa told me that a long time ago - he was right.

My Nomex suit is on - flame away, I don't care!

73 de Larry W2LJ

W2LJ@arrl.net

<http://www.qsl.net/w2lj>

ARRL Lifemember QRP ARCI #4488 NJQRP #47
FISTS #1469 QRP-L #778 FP #612 QRPp-I #759
ARS #1528 --- K1 #1647

----- Original Message -----

From: "John L. Sielke" <jsielke@pobox.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Saturday, July 26, 2003 11:46 AM

Subject: Re: Learning the code

>

> > But, it was good practice, and after listening to 18 for a half hour
or

> > so, 13 was a piece of cake.

>

>

> Please, Ray, "Piece of Cake" is a non-PC term, just like "no-brainer."

To

> even suggest that you had an easy time learning the code makes other,
> possible less gifted, or to be more PC, less "CW-enhanced" individuals
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> inadequate. Feelings of inadequacy cause frustration and

> frustration...well, you get the picture.

>

> I remember learning the code. I had to walk five miles, barefoot, in
the

> snow to get to a code practice buzzer. (we couldn't afford an
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> those days.)_ It took me weeks to learn "E," "I," "S," and "H," but
even

> though it was hard, I persevered, as the FCC in those days expected
you to
> be able to receive and send, at speeds up to 20 WPM. It was heartless,
and
> things were tough. Many fell by the wayside, and went to a thing
called CB.
> It required no code, or any other knowledge, for that matter. Perhaps
they
> were the ones who saw the future.
>
> John W2AGN
>
>

Date: Sat, 26 Jul 2003 15:48:22 -0400
From: "Jim" <k4gt@mindspring.com>
To: <kr1st@amsat.org>,
 "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [154994] RE: Digimax D-1200 counter question
Message-ID: <000801c353ae\$df498c60\$6401a8c0@JIM>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

9-14 Vdc, 260-500 ma. Has internal battery pack, probably dead. Mine
is.

Direct: 50 Hz to 50 Mhz
Prescale: 10 Mhz to 1.2 Ghz

Time Base: 10 Mhz TCXO

Accuracy +/- .1 ppm

I've had mine for almost 20 years. Great Counter!

Jim
K4GT

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
Of Alex
Sent: Saturday, July 26, 2003 12:24 AM

To: Low Power Amateur Radio Discussion
Subject: Digimax D-1200 counter question

Hi there,

I've just acquired a Digimax model D-1200 frequency counter. It didn't come with a manual or power adapter. I don't even know if it works, but for the price I was very willing to gamble. Would anyone on this list know what the power requirements (V, A, polarity) are for this counter?

Thanks a bunch and 73,
--Alex KR1ST

Date: Sat, 26 Jul 2003 12:57:13 -0700
From: "Jim Pruitt" <wa7duy@charter.net>
To: "John J. McDonough" <wb8rcr@arrl.net>
Cc: "QRP-L" <qrp-l@lehigh.edu>
Subject: [154995] Re: Elmer 160: Beginning PIC applications
Message-ID: <01c301c353b0\$1cef4c20\$6401a8c0@cl3238048c>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello John and the group.

One note for those not wanting to buy the 16F84 PIC chips. Microchip is a lot like Analog Devices and Dallas/Maxim in that they are very generous with their samples. If I remember right you can get 3 of any one type cpu. The 16F84 is one of those cpu's. You can even get 3 of up to 5 different cpu's and different is defined as different package and or speed. There are a few exceptions as I do not think the 16F878 is available for sample as are others but the 16F84 is or at least was available a couple of weeks ago.

I am not advocating that everyone interested hit Microchip for samples but if that is the only part that is missing from your junk box for this tutorial then it is an option and Microchip is quite good about it and quite generous.

I have not seen the parts list for the project but suspect there are a few people with no junk box yet and would like to have it all in one order and others (probably most) will have at least some of the parts and would not need a kit.

At any rate I thought I would throw in the fact that Microchip does sample parts including the 16F84 in both smt and DIP packages.

Thank you.

Jim Pruitt

----- Original Message -----

From: "John J. McDonough" <wb8rcr@arrl.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Friday, July 25, 2003 7:00 PM

Subject: Elmer 160: Beginning PIC applications

> Ok Gang,

>

> There has been a terrific response to the call for interested parties in a
> PIC Elmer session, so I guess it's a go. Besides the notes you saw on the
> reflector, I got close to 50 emails direct. I've already started
preparing.

>

> One thing that concerns me is the parts. Most everything I plan to use
you

> probably already have or you can get at Radio Shack. The two exceptions
are

> the PIC itself and the crystal.

>

> Here's the kicker ... the PIC is six bucks and the crystal a buck at
> DigiKey. *BUT*, DigiKey has a \$25 minimum order and they ship UPS, which
> means your \$7 order will cost you AT LEAST \$21 (depending on where you are
> and how much of a hurry you are in). Of course, it's not hard to find
other

> things you need at DigiKey, but not everyone may be inclined to use this
as

> an excuse to stock their parts drawers.

>

> There's a pretty sizeable price break on PICs at 25, so if we did a group
> buy, it would probably be possible to get the PIC and crystal for less
than

> \$10 including Priority Mail.

>

> I haven't made up the full parts list yet, but besides diodes, resistors,
> connectors, buttons and something to build on, the only other significant
> parts are a DB 25 connector, an 18 pin socket, and 12 and 5 volt
regulators.

> My local RS had all of these last week when I was there, but I understand

> that the parts drawers are getting mighty slim at some of the stores.
>
> Do we need to get together an entire parts kit? I'm guessing that most
> folks have most of the stuff, but maybe that's not the case.
>
> Please, from here on, include Elmer 160: on any correspondence. My spam
> filters are pretty tough anymore and I've been fishing a lot of stuff out
of
> the spam bucket. It's pretty easy to miss stuff in there.
>
> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
> didileydadidah QRP-L #1446 Code Warriors #35
>

Date: Sat, 26 Jul 2003 13:24:28 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: qrp-l@lehigh.edu
Subject: [154996] Re: Making etched circuit boards
Message-ID: <Pine.LNX.4.21.0307261246590.19313-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just remembered an old technique for 'no-etch' circuit boards:
Just use a scribe (carbide probably for glass-epoxy) to cut narrow gaps
between very wide traces. Imagine an ordinary pcb layout, but now make
each trace wider until it just meets its neighbors. This boundary is the
scribe line to make the circuit islands. Certainly, the capacitance
between traces and to the ground plane on the other side is much greater
than with ordinary width traces, but, it works for non critical stuff like
active filters, and audio range circuitry. I can't say if one could make
some rf circuits work, too, but it might be worth a try. sometimes the
extra trace capacitance just requires smaller (lumped) capacitors to
compensate. I have used leaded parts on such boards, but, would smt parts
bridge these gaps?

News flash: I noticed this is shown in the August 2003 73 magazine article
for the Clamp-on DC Ammeter. Page 14, Photo I. But, you don't really have
to mount the parts on the other side of the board.

73, Jeff AD6MX

Date: Sat, 26 Jul 2003 16:07:26 -0500 (CDT)

From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154997] Re: Elmer 160: Beginning PIC applications
Message-ID: <Pine.LNX.4.33.0307261548190.8613-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 26 Jul 2003, Jim Pruitt wrote:

> One note for those not wanting to buy the 16F84 PIC chips.

My own note: No one should be buying 16F84s except as exact replacements for existing 16F84s. They're obsolete. The 16F628 is a far better choice. It has more memory (twice the program and EEPROM and nearly 4 times the RAM), is 2 to 5 times faster (up to 20MHz), has analog comparators, serial UART and 4MHz RC oscillator built in, uses less power AND costs way less. It's pin compatible with the 16F84 and code for the 'F84 can be quite easily converted to the 'F628.

There are a lot of web sites with 16F84 projects, but some of them are pretty old. I haven't touched a 16F84 in two years now...

72,
Dale

--

It's a thankless job, but I've got a lot of Karma to burn off.
PicoKeyer is available for the Rock-Mite! <http://www.hamgadgets.com>

Date: Sat, 26 Jul 2003 14:30:54 -0700
From: "Thomas Kuehl" <ac7a@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Cc: <Makos327@worldnet.att.net>
Subject: [154998] Re: Learning the code
Message-ID: <000f01c353bd\$32cbd790\$120110ac@texas6oef4glwm>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-15"
Content-Transfer-Encoding: 7bit

Lawrence,

Now that was refreshing! I remember as a kid ridding the Greyhound bus half the night to 312 N. Spring St. in Los Angeles, just to have the privilege of taking my code exams before the FCC examiner. Sending and receiving at 13WPM for the General Class, and 20WPM for the Extra Class. Sending was

accomplished with a hand pump way back then (early 70's). And... I had a crooked foot as a baby! (that was my handicap to learning code)

Regards, Thomas - AC7A (Tucson) 99% CW Op - "They'll have to pry the key from my cold, dead fingers before I'll give the code up!"

----- Original Message -----

From: "Lawrence Makoski" <Makos327@worldnet.att.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Saturday, July 26, 2003 12:12 PM

Subject: Re: Learning the code

> I've been watching this "Learning the code" thread for days now; and
> I've been hesitant about sending a post. There are a lot of you who
> won't like my opinion; and will probably get all whiney and mooney about
> it. But I've had it, can't take it anymore; and have to post my
> feelings.

>

> First of all, I am really getting tired of this PC crap that we all seem
> to be drowning in these days. I prefer what Harry Truman used to know
> as "plain speaking".

>

> Bottom line - you want a license from the FCC that will authorize you to
> get on HF? Then learn Morse Code! You don't want to (or say you can't)
> ... too bad. Go find something else to occupy your time. Amateur Radio
> will do fine without you. Maybe I should cut and chew your food for you
> while I'm at it.

>

>

> My Nomex suit is on - flame away, I don't care!

>

> 73 de Larry W2LJ

>

> W2LJ@arrl.net

> <http://www.qsl.net/w2lj>

Date: Sat, 26 Jul 2003 15:22:50 -0700 (PDT)

From: Jim Cluett <w1pid@yahoo.com>

To: qrp-l@lehigh.edu

Subject: [154999] Pre-Bumble Bee Test

Message-ID: <20030726222250.95718.qmail@web11608.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

I'm pretty excited about the Bumble Bee event tomorrow. More than 180 bees! It should be very active.

Did a bit of a pre-bee testing today.
Went about 2 miles up a trail into the wilderness area along the Pemigewasset River on the bicycle. I brought an 817, 4.5 amp battery and 10 watts of solar panel, and a 44 foot center-fed Zepp. It was darned heavy in the pack.
Put the antenna up about 35 feet.

I've never taken the 817 out except car camping... never hiking or biking. It's too heavy and needs too much battery, but I thought I'd see how it went and whether I thought the extra weight was worth having 5 watts.

I operated on 20 and 40 for a half hour and worked the following stations:

WA50ES nr Denver 20 mtrs
F7BPN 20 mtrs
W5FO 20 mtrs
YT7A 20 mtrs
W2UW 40 mtrs who was operating 200 mw and peaked at 589!

It was a good test. But I'm switching back to the DSWs.
They're so much lighter, don't need big batteries and are just a lot more suitable for the field. Plus, if it's cloudy and I can't use the panels, the 817 just wouldn't be possible without a really big battery.

Look for Bee Number 2 tomorrow on 20 and 40 meters with the DSWs at 2 watts. I'll be sitting under some huge shade trees along the Pemigewasset River. .. accessible only on foot or

by bicycle.

Jim, W1PID

Do you Yahoo!?

Yahoo! SiteBuilder - Free, easy-to-use web site design software
<http://sitebuilder.yahoo.com>

End of QRP-L Digest 2993

